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Compress the String! 🔖

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| Problem | Submissions | Leaderboard | Discussions | Editorial 🔒 |

In this task, we would like for you to appreciate the usefulness of the *groupby()* function of *itertools* . To read more about this function, Check this out .

You are given a string S. Suppose a character 'c' occurs consecutively X times in the string. Replace these consecutive occurrences of the character 'c' with $(X, \ c)$ in the string.

For a better understanding of the problem, check the explanation.

Input Format

A single line of input consisting of the string S.

Output Format

A single line of output consisting of the modified string.

Constraints

All the characters of S denote integers between 0 and 9.

$1 \leq | \ S \ | \leq 10^4$

Sample Input

```
1222311
```

Sample Output

```
(1, 1) (3, 2) (1, 3) (2, 1)
```

Explanation

First, the character 1 occurs only once. It is replaced by $(1, \ 1)$. Then the character 2 occurs three times, and it is replaced by $(3, \ 2)$ and so on.

Also, note the single space within each compression and between the compressions.

Submissions:9768

Max Score:20
Difficulty: Medium

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More

Current Buffer (saved locally, editable)

Python 3

```
1
```